



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

ORGANIZED 1878

INCORPORATED 1891

JULY
1917

VOLUME XXXVI

No. 3

TRANSACTIONS
OF THE
AMERICAN
MICROSCOPICAL
SOCIETY

PUBLISHED QUARTERLY BY THE
AMERICAN MICROSCOPICAL SOCIETY
DECATUR, ILLINOIS

ANNUAL SUBSCRIPTION \$3.00

SINGLE COPY \$1.00

DOUBLE NUMBERS \$2.00

Attention of members of the
AMERICAN MICROSCOPICAL SOCIETY

is called to the announcement of Grants
from the Spencer-Toller Research Fund.

(See TRANSACTIONS, July, 1913)

These awards are to stimulate and aid research in
Microscopic work

1. The Grantee must be a member of the Society
2. Resulting discoveries must first be offered for publication in the Society Transactions.
3. Application should be made to Dr. Henry B. Ward,
Chm., Urbana. Ill.

NOTICE TO MEMBERS

It is a source of regret to the Editor that the *Transactions* cannot be issued as dated. The issue is dependent, however, upon the income of material from the members, and must await upon a certain degree of balance in the material as well as quantity of material.

The Secretary will consider it a favor if members will notify him of non-receipt of numbers of the Transactions, and of changes of address.

T. W. GALLOWAY,
Secretary-Editor.

Beloit, Wisconsin.

TRANSACTIONS
OF THE
American Microscopical
Society

ORGANIZED 1878 INCORPORATED 1891

PUBLISHED QUARTERLY

BY THE SOCIETY

EDITED BY THE SECRETARY

VOLUME XXXVI

NUMBER THREE

Entered as Second-class Matter December 12, 1910, at the Post-office at Decatur,
Illinois, under act of March 3, 1879.

DECATUR, ILL.
REVIEW PRINTING & STATIONERY CO.
1917

OFFICERS

President: M. F. GUYER.....Madison, Wis.
First Vice President: T. L. HANKINSON.....Charleston, Ill.
Second Vice President: L. E. GRIFFIN.....Pittsburg, Pa.
Secretary: T. W. GALLOWAY.....Beloit, Wis.
Treasurer: H. J. VANCLEAVE.....Urbana, Ill.
Custodian: MAGNUS PFLEUM.....Meadville, Pa.

ELECTIVE MEMBERS OF THE EXECUTIVE COMMITTEE

GEORGE R. LARUE.....Ann Arbor, Mich.
H. S. BRODE.....Walla Walla, Wash.

EX-OFFICIO MEMBERS OF THE EXECUTIVE COMMITTEE

Past Presidents Still Retaining Membership in Society

R. H. WARD, M.D., F.R.M.S., of Troy, N. Y.,
at Indianapolis, Ind., 1878, and at Buffalo, N. Y., 1879
ALBERT MCCALLA, Ph.D., F. R. M. S., of Chicago, Ill. at Chicago, Ill., 1883
GEO. E. FELL, M.D., F.R.M.S., of Buffalo, N. Y., at Detroit, Mich., 1890
SIMON HENRY GAGE, B.S., of Ithaca, N. Y., at Ithaca, N. Y., 1895 and 1906
A. CLIFFORD MERCER, M.D., F.R.M.S., of Syracuse, N. Y., at Pittsburg, Pa., 1896
A. M. BLEILE, M.D., of Columbus, Ohio, at New York City, 1900
C. H. EIGENMANN, Ph.D., of Bloomington, Ind., at Denver, Colo., 1901
E. A. BIRGE, LL.D., of Madison, Wis. at Winona Lake, Ind., 1903
HENRY B. WARD, A.M., Ph.D., of Urbana, Ill., at Sandusky, Ohio, 1905
HERBERT OSBORN, M.S., of Columbus, Ohio, at Minneapolis, Minn., 1910
A. E. HERTZLER, M.D., of Kansas City, Mo., at Washington, D. C., 1911
F. D. HEALD, Ph.D., of Philadelphia, Pa., at Cleveland, Ohio, 1912
CHARLES BROOKOVER, Ph. D., of Little Rock, Ark., at Philadelphia, Pa., 1914
CHARLES A. KOFOID, Ph.D., of Berkeley, Calif., at Columbus, Ohio, 1915

The Society does not hold itself responsible for the opinions expressed by members in its published *Transactions* unless endorsed by special vote.

TABLE OF CONTENTS

FOR VOLUME XXXVI, Number 3, July, 1917

The Enchytræidæ (Oligochæta) of the Woods Hole Region, by Paul S. Welch	119
Chemical Microscopy, with Plates XII-XV, by E. M. Chamot.....	139
Some Comparisons Between Nuclei of Nerve Cells, with Plate XVI, by William A. Hilton	157
Notes and Reviews: Culturing of Microscopic Organisms for the Zoölogical Laboratory, by George R. LaRue; Effects of Thyroid on Paramecium; Are Conjugation and Encystment Necessary? Extra Contractile Vacuoles in Paramecium; Preserving Fish without Ice; Cytological Changes Accompanying Desiccation in Rotifers; The Fundus Oculi of Birds, by Dr. Casey A. Wood.....	163

(This Number was issued on November 5, 1917.)